

In the past few years there has been an increased focus on how immune cells meet their energetic demands to fulfil their functions in different tissue microenvironments and against different pathogens. This boom in the field of immunometabolism is providing new insights on how metabolic remodeling affects immune cell development and regulation, and how it influences the effectiveness of the immune response. In this lecture series we will discuss the most recent advances in immunometabolism and therapeutic strategies targeting the metabolism of immune cells.

Main Topics:

Metabolic remodeling during immune cell development

Metabolic remodeling in the course of an immune response

Inflammation and changes in macrophage metabolism

T cell metabolism in infection, cancer and autoimmunity

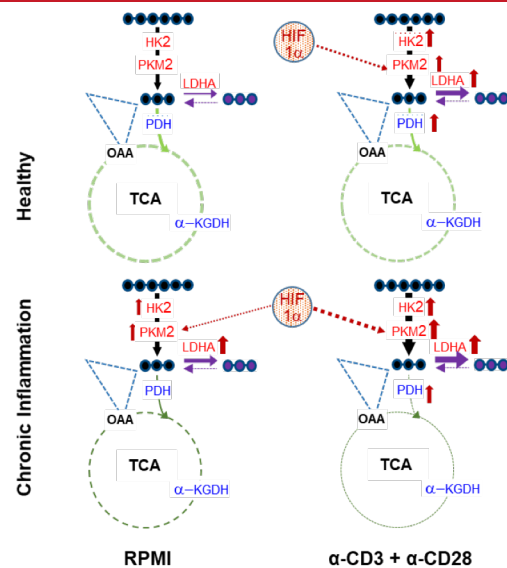
Linking B cell metabolism and (auto)antibody production

Metabolic fingerprint of regulatory T and B cells

(Epi)genetic control of immunometabolism

Experimental techniques to study immunometabolism

Therapeutic metabolic remodeling of immune cells (small molecules; natural compounds; diet)



When: Tuesdays, 10h30-12h00
(Start: 17.04.2018)

Where: INF 306, SR 18b/c

Preparatory Meeting:
10.04.2018, 10h30
INF 305, SR 208

Registration:
katrin.huebner@immu.uni-heidelberg.de